

ABSTRACT OF THE DISCLOSURE

A solid polymer electrolyte fuel cell having a cation exchange membrane made of a perfluorocarbon polymer having sulfonic acid groups as an electrolyte, wherein the cation exchange membrane has been stretched and has a larger surface area, preferably a 5-100% larger surface area, than it had before the stretching.

According to the above, because the cation exchange membrane does not elongate or wrinkle even under great change in humidity, it is possible to provide a solid polymer electrolyte fuel cell which has a high power output and excellent durability.